

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER 88-100

WASTE DISCHARGE REQUIREMENTS FOR:

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT, BOLINAS, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (the Board) finds that:

1. The Bolinas Community Public Utilities District (hereinafter the discharger) owns and operates a municipal wastewater system in Bolinas, which presently collects, treats and disposes of approximately 30,000 gallons per day (GPD) of municipal wastewater (average dry weather flow) from 165 residences of the downtown portion of the community. The remainder of the community is served by private on-site wastewater systems. Wastewater from the sewered area is collected and pumped to a series of four oxidation ponds for stabilization and storage, with ultimate disposal through pond evaporation and spray disposal on 45 acres of grassland.
2. The present treatment and disposal system (lift-station, four waste ponds and spray disposal facilities) was completed with a federal grant in 1975. Prior to that time, the collected sewage discharged directly to Bolinas Lagoon.
3. The present collection system was constructed between 1908 and 1919. The majority of the system is badly deteriorated, causing a severe infiltration/inflow (I/I) problem during the rainy season - resulting in excess flows and failures at the lift station, sewage bypassing, pond overflows, and over-saturation of the disposal fields. Several such bypasses have occurred since the construction of the lift-station in 1975, resulting in raw sewage discharges to Bolinas lagoon.
4. On February 27, 1985, the discharger adopted a Resolution declaring a sewage collection emergency and a moratorium on new sewer connections until rehabilitation funding could be obtained. Additional study confirmed that excessive I/I was the cause of the exceedance of storage and disposal capacity, and that there were adverse impacts on both surface and groundwaters as a result.
5. The Regional Board recommended that the District be placed on the State Grants Priority List for funding as a Class A project to correct the above problems. The Board subsequently adopted a Cease and Desist

Order requiring full compliance with the waste discharge requirements by October 1, 1989. After further study, it was determined that the cost effective solution would be to replace the majority of the interceptors, and to either replace or slip-line the building laterals.

6. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 18, 1986. The Basin Plan prohibits the discharge of raw sewage or any waste failing to meet waste discharge requirements of any waters of the Basin.
7. The Basin Plan identifies the following beneficial uses of Bolinas Lagoon:
 - a. Marine habitat
 - b. Water Contact Recreation
 - c. Non-Water Creek Recreation
 - d. Wildlife Habitat
 - e. Preservation of Rare and Endangered Species
 - f. Fish Migration
 - g. Fish Spawning
8. This project involves the continued operation of a sewage treatment and disposal facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.
9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a properly-noticed public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Bolinas Community Public Utility District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The disposal of waste shall not cause degradation of the ground or surface water suitable for domestic water supply or cause an

increase in any quality parameter that would impair beneficial uses of said waters.

3. The dry-weather wastewater flow to the wastewater treatment plant shall not exceed 65,000 gallons per day. Following the completion of the Clean Water Grant Project No. C-06-2980-110, the wet-weather flows shall also comply with this limitation.
4. No waste shall be allowed to escape from the discharger's property into waters of the State via surface flow, airborne spray or resurfacing after percolation.
5. The discharge of waste other than domestic wastes is prohibited.
6. No wastewater shall be applied to the disposal area during the wet weather season (November 15 through April 15). The wastewater may be applied during the remainder of the year, except when the ground is saturated or during periods when rainfall or runoff from adjacent land can occur.
7. The wastewater shall not be injected into any fixed irrigation system connection to a domestic water supply.
8. The discharge of wastewater on areas not shown on the map which is attached to this order (Appendix B) is prohibited.
9. Waste shall not be applied within 25 feet of any ephemeral stream or within 100 feet of any other stream, pond (excluding wastewater treatment ponds), well, or housing.
10. Persons shall be effectively excluded from the areas where the wastewater is being applied.
11. Wastewater ponding which could provide a breeding area for mosquitoes shall be prevented.
12. A minimum freeboard of two feet shall be maintained in the storage and treatment ponds at all times.

C. Wastewater Specifications

1. The waste as discharged from the treatment and storage facilities to the spray field shall meet the following effluent quality limits at all times:

5-day BOD	40 mg/l maximum
Dissolved oxygen	1.0 mg/l minimum
Dissolved sulfide	0.1 mg/l maximum

Between 6.0 and 9.0

2. The wastewater at the surface of the treatment and storage ponds shall meet the following quality limits at all times:

In any grab sample:	Dissolved sulfide	0.1 mg/l max
	Dissolved oxygen	2.0 mg/l min

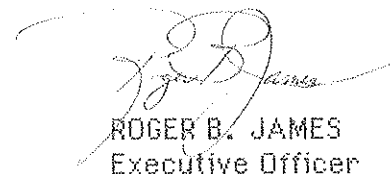
3. The discharger shall discontinue the discharge of wastewater during any period in which there is reason to believe that the limits specified in C.1. are not being met.

0. Provisions

1. This Order supercedes Order 82-40, which is hereby rescinded.
2. The discharger shall comply with all sections of this order immediately upon adoption. The discharger shall also comply with the Self-Monitoring Program as ordered by the Executive Officer.
3. The waster disposal area and any equipment used to transport the wastewater shall be clearly identified with warning signs to inform the public that wastewater is present, and that this water is unfit for human consumption.
4. Fail-safe treatment shall be provided, including back-up power facilities as needed, to assure continuous compliance with these requirements.
5. Sludges and other solids removed from liquid wastes shall be disposed of at a legal point of disposal and in accordance with the provisions of Division 7.5 of the California Water Code. For the purposes of this requirements, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a Regional Board and which is in full compliance therewith.
6. The discharger shall employ a treatment plant operator with at least a Grade II certification to supervise operation of the wastewater treatment plant, or demonstrate to the Executive Officer's satisfaction, that an equivalent level of supervision is being maintained.
7. The discharger shall file with the Regional Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.

8. The discharger shall permit the Board or its authorized representative in accordance with California Water Code Section 13267 (c):
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept;
 - b. Access to copy any records required to be kept under terms and conditions of this Order;
 - c. Inspection of monitoring equipment or records;
 - d. Sampling of any discharge.
9. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
10. This Board will review this Order periodically and may revise the requirements when necessary.

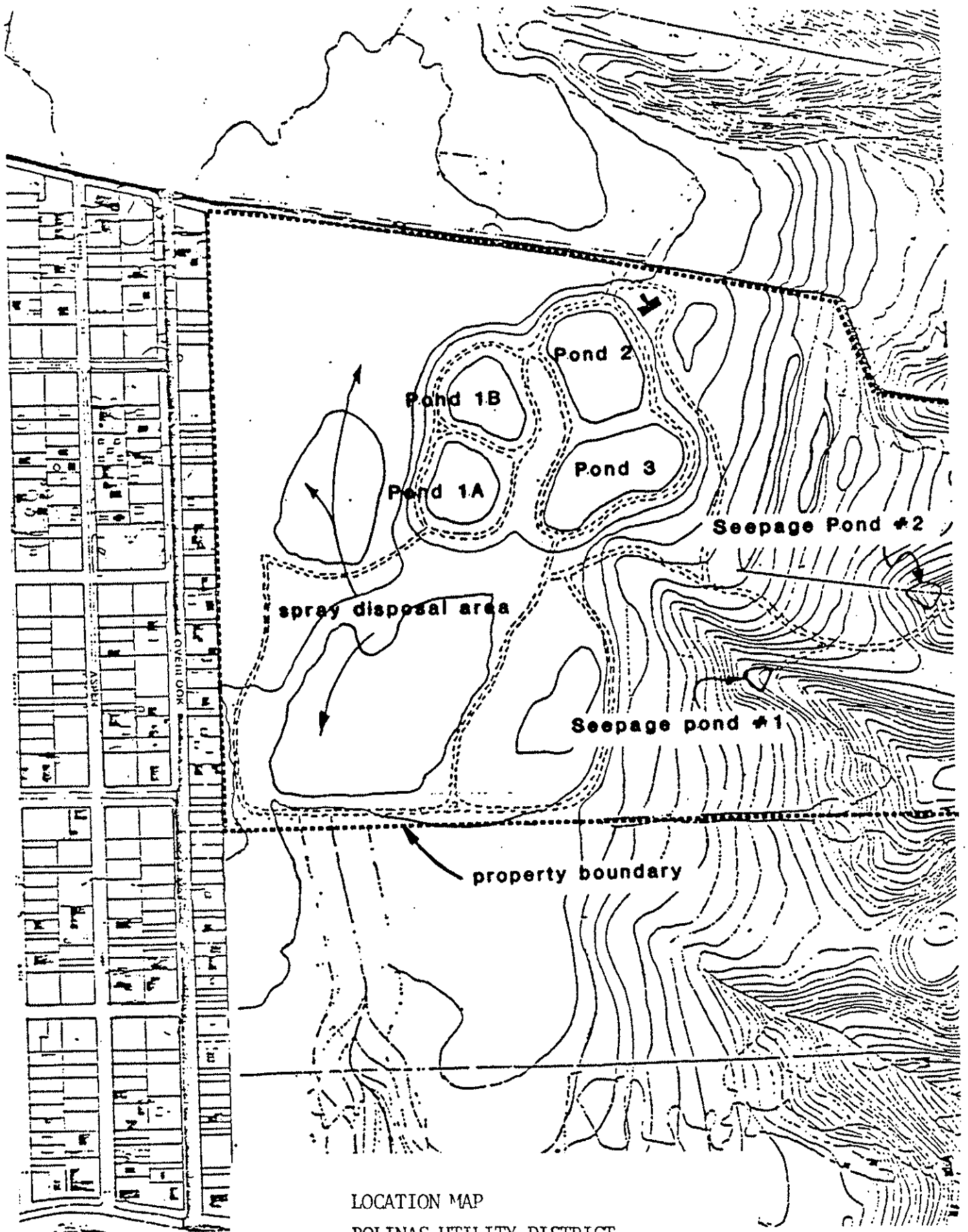
I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Region, on June 15, 1988.



ROGER B. JAMES
Executive Officer

Attachments:

Self-Monitoring Program
Location Maps: Proposed facilities



LOCATION MAP
BOLINAS UTILITY DISTRICT
TREATMENT PONDS & DISPOSAL AREA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

FINAL SELF-MONITORING PROGRAM
FOR

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
BOLINAS, MARIN COUNTY

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16. The principal purposes of a self-monitoring program are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board, and
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from the waste discharge.

II. DESCRIPTION OF SAMPLING STATIONS, SCHEDULE OF SAMPLING ANALYZES AND OBSERVATIONS

A. Treatment Pond Influent

Weekly, determine average daily flow in gallons per day (GPD). Monthly, determine BOD and total suspended solids (mg/l) from a grab sample at peak flow.

B. Treatment Ponds

1. Weekly, sample wastewater at any point one foot below the pond surface for the following (for all four ponds):
 - Temperature
 - pH
 - dissolved oxygen concentration (mg/L)
 - dissolved sulfides (mg/L), if D.O. concentration is below 2.0 mg/l
2. Weekly, perform standard observations along the perimeter of the pond for the following:
 - freeboard (vertical distance from dike crest to water surface)
 - evidence of leaching liquid from the pond and estimated size of affected area (include sketch)
 - estimated number of waterfowl and other water associated birds in the pond area
 - odor (if evident, note source and area affected)

C. Disposal Area

1. Daily, during the reclamation period, determine the volume of wastewater discharged to the disposal site. Calculate the monthly average (in GPD).
2. Weekly, during the reclamation season, sample the wastewater for the following:
 - BOD (mg/l)
 - Dissolved oxygen content (mg/L)
 - Dissolved sulfide (if D.O. is less than 2 mg/l)
 - Total coliform (MPN/100 ml)
 - pH
3. Monthly, sample both of the seepage ponds for total and fecal coliforms (MPN/100 ml).
4. Monthly, the groundwater within the vicinity of the disposal field is to be sampled for total and fecal coliforms (MPN/100ml), and nitrates (mg/l).
5. Weekly, during the reclamation period, perform the following observations in and around the perimeter of the disposal area:
 - evidence of any runoff from the site (if evident, use sketch map to show location and area affected). If runoff occurs, stop spraying immediately.
 - evidence of erosion caused by wastewater disposal
 - odor (if evident, note area affected)
 - mosquito breeding problems resulting from ponded wastewater
 - proper posting of warning signs

III. REPORTS TO BE FILED WITH THE BOARD

A. VIOLATIONS OF REQUIREMENTS

In the event the discharger is unable to comply with the conditions of the waste discharge requirements due to:

- maintenance work, power failures or breakdown of waste treatment equipment
- bypassing of untreated or partially treated wastewater
- accidents caused by human error or negligence
- other causes such as acts of nature

The discharger shall notify the Board office by telephone (415-464-1255) as soon as he or his agents have knowledge of the incident and shall confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

B. Self-Monitoring Reports

Written reports shall be filed monthly. All reports are to be submitted by the fifteenth day of the following month. The reports shall include:

1. Letter of transmittal: A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken for correcting violations, such as operational modifications. The letter transmitting monitoring reports shall be signed by a authorized personnel.

The letter shall contain the following statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

2. Data: All results observed or analyzed per the requirements of Section II, including dates and times of sampling and observations.
3. Map: A map shall accompany the report, showing the location of the treatment and disposal facilities, and the monitoring and observation points.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 88-
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.



ROGER B. JAMES
Executive Officer

Effective Date: